E-CORE
LED Lighting

INDUSTRIAL LIGHT. GREAT PERFORMANCE FOR LOW CONSUMPTION – DURABLE AND SAFE.

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ROBUST LIGHTS WITHSTAND TOUGH CONDITIONS

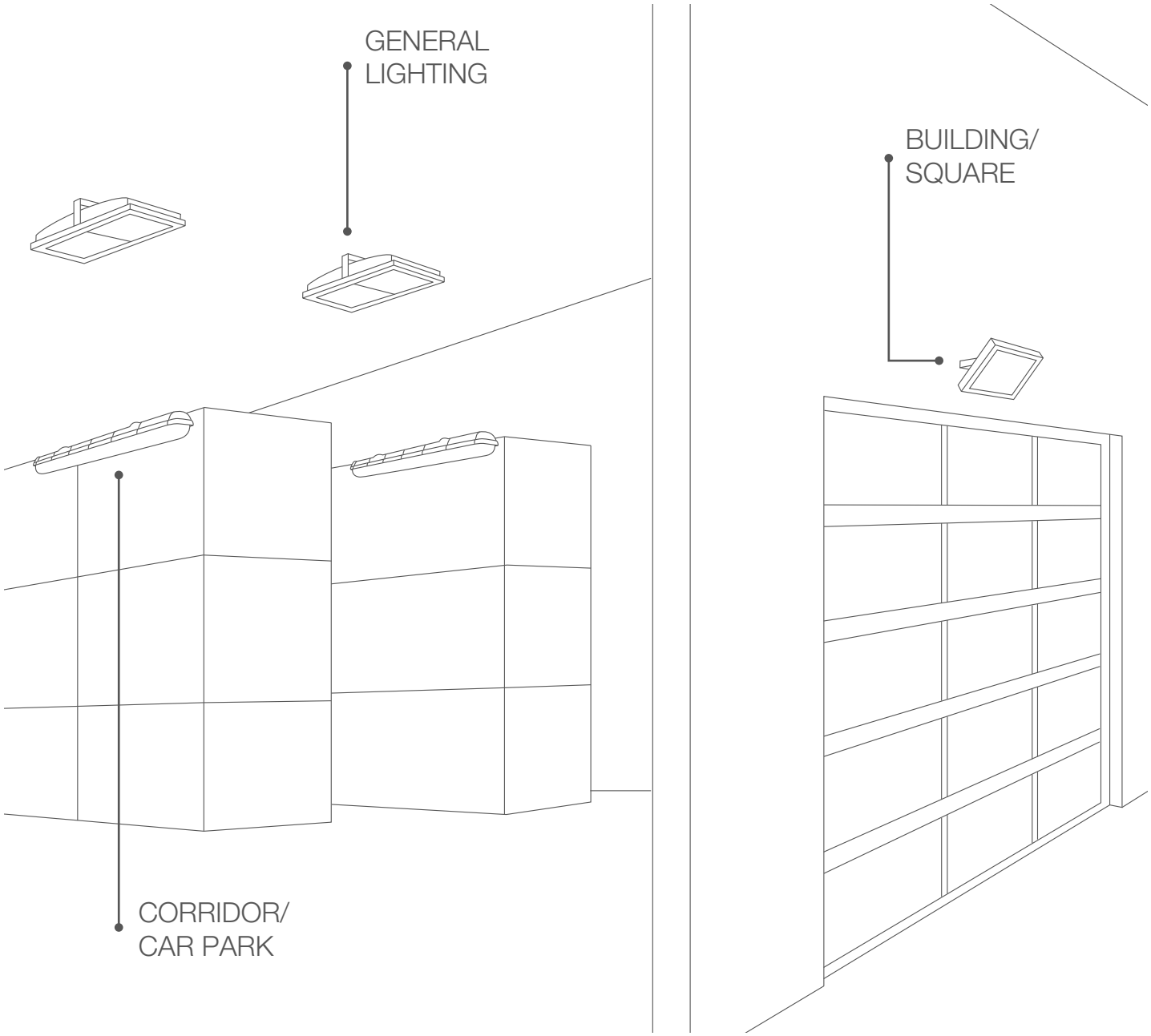
IMPROVE MOTIVATION AND SAFETY

In industry, all types of applications, including difficult ambient conditions, can represent a challenge. Men and machines largely work in very spacious and high facilities. Many production work processes are automated, while there are also areas for manual finishing, component assembly, quality control and storage, as well as extensive outdoor areas. Particular challenges may come in the form of, for example, extreme temperatures, damp, vibrations and soiling. Many factories also work 24 hours per day across 3 shifts. The lighting has to work reliably – and efficiently – throughout the entire time.

High luminance and low maintenance

Robust E-CORE LED luminaires for industry are ideal for these tough conditions. Their specific design resists mechanical stresses in harsh environments. Equally important is their – maintenance-free – service life of up to 60.000 hours, because any light bulb replacement interrupts production and generates downtime costs. High lumen packages ensure ideal lighting strengths for workplaces. Good lighting helps reduce the amount of workplace accidents and, at the same time, improves the productivity and well-being of the workforce.

E-CORE™
LED Lighting



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FLOODLIGHT 3000

Night-time lighting of buildings and industrial structures or even billboards is a standard element of urban spatial design. This pivoting facade spotlight is the suitable tool for the job. Unbreakable, long-lasting and with an impressively uniform light output, it makes modern architectural lighting a reality.

Product details

- Dimmable: No
- Class: II
- Protection rating: IP65
- Power factor: 0.9
- Temperature range: -20°C – +35°C
- Constant lumen output
- ENEC

Application

- Architectual Lighting
- Area Lighting
- Billboard illumination

E-CORE™ LED Lighting

Comparison	FL 3000	QT-DE12 / R7s
Light technology	LED	Halogen
System power	35 W	200 W
System light output	2880 lm	4200 lm x 80% = 3360 lm
Energy efficiency	82.5 lm/W	16.8 lm/W
Energy consumption p.a.*	143 kWh	820 kWh
Energy costs p.a.**	14.3 EUR	82 EUR
Maintenance intervals in 10 years	0	20
Savings per year		
CO_2	**410 kg**	
Energy	**677 kWh**	
Energy costs	**68 EUR**	

* 4.100h p.a., ** 10 Cent per kWh

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FLOODLIGHT 5500

The swivelling light called the E-CORE LED FLOODLIGHT 5500 ensures impressive, bright and thus very cost-effective lighting. You enjoy tremendous flexibility with your light design thanks to the finely graduated light intensities, three different Kelvin ranges and various beam angles. Furthermore, the constant luminous flux control over the entire operational life offers unvarying brightness.

Product details

- Dimmable: No
- Class: II
- Protection rating: IP65
- Power factor: 0.9
- Temperature range: -20°C – +35°C
- Constant lumen output
- ENEC

Application

- Architectual Lighting
- Area Lighting
- Billboard illumination

E-CORE™ LED Lighting

Comparison	FL 5500	QT-DE12 / R7s
Light technology	LED	Halogen
System power	66 W	400 W
System light output	5760 lm	9000 lm x 80% = 7200 lm
Energy efficiency	87 lm/W	18 lm/W
Energy consumption p.a.*	270 kWh	1640 kWh
Energy costs p.a.**	27 EUR	164 EUR
Maintenance intervals in 10 years	0	20
Savings per year		
CO_2	**829 kg**	
Energy	**1.370 kWh**	
Energy costs	**137 EUR**	

* 4.100h p.a., ** 10 Cent per kWh

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HIGHBAY 12000

Extremely robust, absolutely homogeneous and very efficient – the E-CORE LED HIGHBAY 12000 stands for up-to-date industrial lighting. With a luminous flux of ~11,000 lm, good light quality and UGR 20 and UGR 26 this tough luminaire is ideal for illuminating different functional areas.
The E-CORE LED HIGHBAY is a suspended fixture for any use where robustness and long life time is a must.

Product details

- Absolutely homogeneous light distribution
- Very powerful and efficient for general illuminating tasks
- Luminous flux constant over life time of 60,000 hours
- 92 lm/W initial system efficacy
- UGR ≤ 20 and 26 enables the use in various application areas
- Extremely robust design

Application

- Ideal for various functional areas in:
  - Industrial areas
  - Highbay lighting
  - Warehouses
- For suspended installation

E-CORE™ LED Lighting

Comparison	HB 12000	HID 250W
Light technology	LED	Metal Halide Lamp
System power	135 W	275 W
System light output	10680 lm	17000 lm x 80% = 13600 lm
Energy efficiency	80 lm/W	50 lm/W
Energy consumption p.a.*	690 kWh	1402 kWh
Energy costs p.a.**	69 EUR	140.2 EUR
Maintenance intervals in 10 years	0	6
Savings per year		
CO_2	**430 kg**	
Energy	**712 kWh**	
Energy costs	**71 EUR**	

* 5.100h p.a., ** 10 Cent per kWh

TOSHIBA
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WEATHERPROOF 2

The name says it all: designed to IP65, this robust diffuser luminaire is the ideal lighting solution for all areas with particular climatic or functional requirements.
It is a replacement for T8 Lamp installations in warehouses, underground car parks, cold stores and other similar situations.

Product details

- Easy Replaceable light source with GX16t-5 socket
- Protection rating: IP65
- Long lifetime of 40,000 hours
- Surface mounted or suspended installation
- PMMA cover: scratch-resistant, highly transparent
- Polycarbonate cover: highly impact resistant

Application

- Car parks
- Warehouses
- Corridors
- Showers
- Pedestrian tunnels

E-CORE™ LED Lighting

Comparison	WP 2	T8 1 x 58W
Light technology	LED	Fluorescent tube
System power	40 W	62 W
System light output	3350 lm	5000 lm x 70% = 3500 lm
Energy efficiency	83 lm/W	56 lm/W
Energy consumption p.a.*	204 kWh	316 kWh
Energy costs p.a.**	20.4 EUR	31.6 EUR
Maintenance intervals in 10 years	0	5
Savings per year		
CO_2	**68 kg**	
Energy	**112 kWh**	
Energy costs	**11 EUR**	

* 5.100h p.a., ** 10 Cent per kWh

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AIR CARGO CENTRE MUNICH AIRPORT, GERMANY

The Air Cargo Centre at Munich Airport is the first port of call for any company in the air freight sector. In the Air Cargo Centre, all the infrastructure facilities and contacts can be found under one roof. The short distances between the apron positions and the Air Cargo Centre also mean that handling is exceptionally quick. Before deploying the Toshiba floodlights, the airport was using 26 halogen metal halide (HQI) lamps with 2 x 4000 Watts.

FLOODLIGHT 5500

Why Toshiba Lighting?

21 E-CORE LED floodlights were installed in the Cargo Centre's outdoor area at Munich Airport. They require less than one-tenth of the energy previously consumed by the HQI lamps and have minimal leakage with similar lighting strength. As well as the energy costs, CO_2 emissions were also reduced by 39 tonnes.

Over the entire service life of over 60,000 hours, the E-CORE LED floodlights guarantee a constant luminous flux, so that no maintenance measures are required. As IP65-classified luminaires, the floodlights are reliably protected against dust, soiling and rainwater. Even spray from cleaning poses no problems. The IK07 impact classification guarantees that the robust lights will resist mechanical damage.

TOSHIBA
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MERCATO DEL CARMINE GENOA, ITALY

Opened in October 2013, the Mercato del Carmine was renovated at the initiative of a group of companies that wished to revive the historic local market. It was built in the Art Nouveau style in 1921. Out of the redesign process, a project emerged which remains unique in Italy – the first “zero kilometre” market, only stocking regional products and fitted out with benches made from wood and slate from the region.

The Mercato comprises three different areas: the fish section, which is stocked by a consortium of Ligurian fishermen, the fruit and vegetable section, and the stalls for meat and cheese. Anyone who wishes can have their purchases cooked there and then, in the market’s restaurant kitchen, enjoy it with a fine wine from the region’s vineyards.

FLOODLIGHT 5500

WEATHERPROOF

E-CORE™ LED Lighting

Why Toshiba Lighting?

To reinforce the Mercato del Carmine's strong focus on using our resources in a conscious and responsible manner, the project leaders opted for Toshiba lighting for both the indoor and outdoor areas.

Toshiba Lighting drew up a strategy for renewing the building's lighting and actively supported the detailed light planning. The exterior lighting skilfully highlighted the historic "liberty" style. The lights in the indoor area are strategically positioned to optimally light the market stalls, the restaurant's kitchen areas and the aisles and meeting points.

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FLOODLIGHT 3000

Warm White	Finish	Colour Temperature	IK	Luminous flux	Wattage	Beam Angle	CRI Ra	Voltage 50 – 60 Hz	Lifespan/ L70
LEDEUF00019I30N	Silver	3,000 K	07	2,015 lm	30 – 40 W	Narrow 11°	> 80	220 – 240 V	60,000 h
LEDEUF00020I30N				1,860 lm		Middle 25°			
LEDEUF00021I30N	Silver	3,000 K	07	1,845 lm		Wide 43°	> 80	220 – 240 V	60,000 h
LEDEUF00022I30N				1,775 lm		Asym 58° x 127°			
Neutral White									
LEDEUF00019I40N	Silver	4,000 K	07	2,015 lm	30 – 40 W	Narrow 11°	> 80	220 – 240 V	60,000 h
LEDEUF00020I40N				1,860 lm		Middle 25°			
LEDEUF00021I40N	Silver	4,000 K	07	1,845 lm		Wide 43°	> 80	220 – 240 V	60,000 h
LEDEUF00022I40N				1,775 lm		Asym 58° x 127°			
LEDEUF00019I50N	Silver	5,000 K	07	2,880 lm	30 – 40 W	Narrow 11°	> 70	220 – 240 V	60,000 h
LEDEUF00020I50N				2,655 lm		Middle 25°			
LEDEUF00021I50N	Silver	5,000 K	07	2,640 lm		Wide 43°	> 70	220 – 240 V	60,000 h
LEDEUF00022I50N				2,540 lm		Asym 58° x 127°			

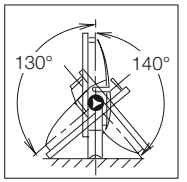
FLOODLIGHT 5500

Warm White	Finish	Colour Temperature	IK	Luminous flux	Wattage	Beam Angle	CRI Ra	Voltage 50 – 60 Hz	Lifespan/ L70
LEDEUF00023I30N	Silver	3,000 K	07	4,035 lm	57 – 75 W	Narrow 11°	> 80	220 – 240 V	60,000 h
LEDEUF00024I30N				3,720 lm		Middle 25°			
LEDEUF00025I30N	Silver	3,000 K	07	3,695 lm		Wide 43°	> 80	220 – 240 V	60,000 h
LEDEUF00026I30N				3,555 lm		Asym 58° x 127°			
Neutral White									
LEDEUF00023I40N	Silver	4,000 K	07	4,035 lm	57 – 75 W	Narrow 11°	> 80	220 – 240 V	60,000 h
LEDEUF00024I40N				3,720 lm		Middle 25°			
LEDEUF00025I40N	Silver	4,000 K	07	3,695 lm		Wide 43°	> 80	220 – 240 V	60,000 h
LEDEUF00026I40N				3,555 lm		Asym 58° x 127°			
LEDEUF00023I50N	Silver	5,000 K	07	5,760 lm	57 – 75 W	Narrow 11°	> 70	220 – 240 V	60,000 h
LEDEUF00024I50N				5,315 lm		Middle 25°			
LEDEUF00025I50N	Silver	5,000 K	07	5,280 lm		Wide 43°	> 70	220 – 240 V	60,000 h
LEDEUF00026I50N				5,080 lm		Asym 58° x 127°			

Features

- Dimmable: No
- Electrical class: II
- Protection rating: IP65
- Power factor: > 0.9
- Temperature range: -20 °C – +35 °C
- Constant lumen output
- ENEC

Movable Angle



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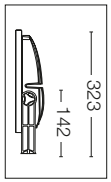
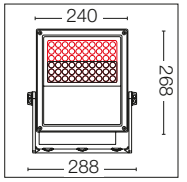


Dimensions 3000 / 5500



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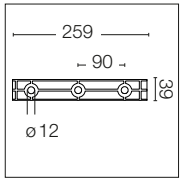
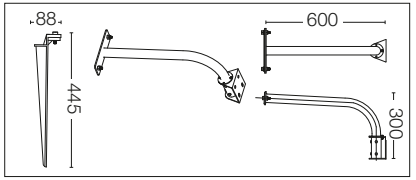


Accessories



LEDEUFX0004	White	Grass mounting Spike
LEDEUFX0005	Silver	Grass mounting Spike
LEDEUFX0002	White	Wall mounting Arm
LEDEUFX0003	Silver	Wall mounting Arm

E-CORE LED Lighting

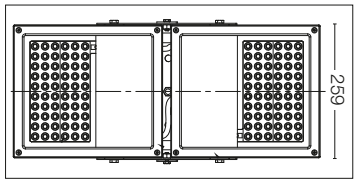
HIGHBAY 12000

	Colour Temperature	UGR	Luminous flux	Wattage	Beam Angle	CRI Ra	Voltage 50 – 60 Hz	Lifespan/ L70
LEDEUJ00005I40	4,000 K	≤ 26	8,470 lm	150 W	90°	> 80	220 – 240 V	60,000 h
LEDEUJ00005I50	5,000 K		10,680 lm		91°	> 70		
LEDEUJ00006I40	4,000 K	≤ 20	8,663 lm	150 W	60°	> 80	220 – 240 V	60,000 h
LEDEUJ00006I50	5,000 K		10,625 lm		60°	> 70		

Features

- Dimmable: No
- Electrical class: I
- Protection rating: IP65
- Power factor: 0.95
- Temperature range: -20 °C – +35 °C
- Constant lumen over life time

Dimensions (mm)



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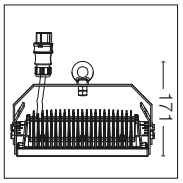


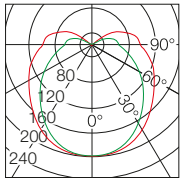
WEATHERPROOF 2

	Cover	IK	Colour Temperature	Luminous flux	Wattage	Glow Wire	CRI Ra	Voltage 50 – 60 Hz	Lifespan/ L70
LEDEUP00003S40	PC	07	4,000 K	2,760 lm	32 W	850°	> 80	220 – 240 V	40,000 h
LEDEUP00005S40				3,320 lm	40 W				
LEDEUP00007S40	PMMA	02	4,000 K	2,930 lm	32 W	650°	> 80	220 – 240 V	40,000 h
LEDEUP00009S40				3,550 lm	40 W				

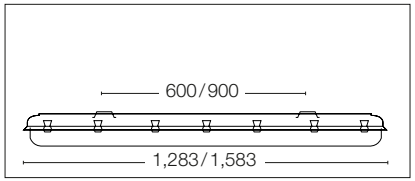
Features

- Applicable lamp: E-CORE LED TUBE GX16t-5
- Electrical class: II
- Protection rating: IP65
- Power factor: >90

Light distribution (cd/klm)



Dimensions (mm)



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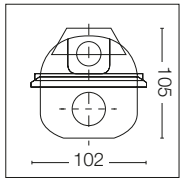

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